

National Bamboo Development, utilization Strategy & Action Plan (2019-2030)

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**National Focal Point for (Bamboo &
UNCCD)**

**Natural forest of Highland bamboo
on Bale Mountains watershed**



Official web sites

1. Environment forest climate change

EFCCC.Gov

Forest sector/ bamboo

2. INBAR (international network for Bamboo & Rattan) www.inbar.int

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1. Introduction

- Ethiopia implementing revised forest proclamation of sustainable (DCU) of Forest resources, 2018 (10/65)
- Bamboo strategy and action plan is also underway from 2019-2030
- It has largest bamboo resource (1.47 mill ha)
- Potential for increasing resource base (>3.5 mill ha)
- The subsector is underutilized & often limited to traditional processing & use
- It is least participant in the global bamboo trade
- Accounts 0.4% import and 0.2% export of global market
- Contribute 56,250,000 birr for GDP (source: BVCA,2018)

2. Benefit (Strategy)

- **Bamboo has:-**
- Potential to substitute **wood products**
- Livelihood improvement **750,000** people dependent on it
- Strategic plant for landscape **restoration**
- Carbon sequestration (**Total of 35.5 Million ton C**)
- Potential to involve **private**, **Cso** and **public** sectors at large

3. Key Challenges/ constraint

- Lack of coordination & Linkage b/n various **value-chain actors**
- Few bamboo **industries**, many **MSE's**
- Majority of processing activities done by enterprises with limited options to **knowledge & innovation**
- Lack of management & harvesting from **state & communal ownership**
- Under developed bamboo **market & linkage & mechanism**
- **Land use conversion: -mass flowering, forest fire + due to economic importance**
- Low Perception for bamboo products- **durability + Quality of products**

4. Content of the Strategy (68 pages)

1. Introduction
2. Bamboo Resources & Existing Value-Chain
3. Constraints & Bottlenecks
4. Guiding Principles, vision, goal & objectives
5. Strategic Directions & Development Approach
 - 5.1 Establish bamboo clusters
 - 5.2 Manage existing bamboo resources
 - 5.3 Promote establishment of new bamboo plantation
 - 5.4 Develop value-chain
 - 5.5 Create enabling environment for market development
 - 5.6 Enhance knowledge on development, management & utilization of bamboo resources.
 - 5.7 Build Human capital & knowledge management system
 - 5.8 Develop partnerships & mobilize resources
 - 5.9 Create enabling institutions, governance mechanisms & incentive modality
 - 5.10 Monitoring & Evaluation

5. Guiding Principles

- Government led & market driven
- Promoting bamboo subsector to provide **job with long supply-chain/value-chain**
- Promoting bamboo subsector to contribute towards **green growth initiative/ CRGE**
- Promoting bamboo industry to contribute towards increasing farmers' **income & resilience**
- Promoting bamboo & industry to reduce pressure on **forests & timber supply**, (Forest-Degradation)
- Promoting bamboo to boost **ecosystem services & climate resilience**
- **Soil erosion** control, **water quality** & quantity, landslide, etc

6. Goal/ overall objective

- Enhance bamboo subsector contribution for **mitigation of climate change impact**
- Increase **land restoration** and livelihood improvement in small holder farmers
- To **transform & sustainably manage** bamboo resources by focusing on the development of **green industries (MSL)**
- To produce value-added products catering for **domestic, regional & global markets.**

6.1. Specific Objectives

- **Short Term: 2019-2024**
- Plant (new) **74,000 ha (this year 20,000 ha)**
- Upgrade/ restock **55,000 ha** existing /natural forest
- Create **500,000 rural /Urban jobs**
- Increase farmers income to Birr **6000/HH**
- Produce **0.5 million** M3 of industrial products (panels & boards)

6.2. Long Term: 2025-2030

- Plantation (new) **126,000 ha**
- Upgrade **145,000** ha existing/natural
- Create **1,000,000** new jobs
- Popularize bamboo as suitable construction material (construct **200,000** houses)
- Produce **1-2 million MT** of energy products
- Produce **1.5 million** M3 of industrial products

7. Strategic Directions & Actions

- **10 Strategic directions (SD)**
- **27 Strategic Actions (SA)**
- **115 Key Activities**
- **(Bamboo strategy is well cited in EFCCC / INBAR website pdf 68 page)**

7. Strategic Directions & Actions

- **SD1. Establish bamboo clusters**
- Form bamboo clusters in close geographical location (Dutch-Sino-East African Bamboo / **INBAR**)
- **Key Activities**
- Determine set of **criteria for the establishment** of clusters
- Identify & determine clusters (**~5 clusters**)
- Identify specific **bamboo products** that should fall within clusters
- **This enables:**
- Development of **supply-chain**
- Minimize **wastages**
- Simplify & reduce **logistic costs**

SD2. Manage existing bamboo resources (NBF)

- Conduct bamboo **resource assessment** on a regular interval of **5 years**
- Make concession arrangements for **communities and/or private sectors** to sustainably harvest based on **management plan (PFM)**
- Provide technical capacity building trainings to **communities & private sectors** to improve productivity. (TOT)

SD3. Promote the establishment of new bamboo plantation

- Encourage & undertake suitable bamboo plantation on all ownership modality -4 **(P,A,C&S)**
- Provide capacity **building trainings (TOT)**
- Support & enhance the production of quality planting materials using **nurseries & micro/Macro propagation techniques**
- Establish **standard & certification** system for **bamboo plantation**

SD4. Develop value-chain

- Establish &/or strengthen model **production & training center** (**African bamboo Training Center**)
- Improve vertical integration b/n **growers, processors, enterprises & industries** to ensure sustainable supply of age & size graded raw materials
- Introduce appropriate **tools, molds & fixtures** to improve production **efficiency & quality**
- Provide capacity **building training** on design & innovation to **M/SMEs**
- Promote the establishment of **new industries** & support existing industries

SD5. Create enabling environment for market development

- Facilitate marketing of bamboo products through **policy & institutional** supports (**organizing trade fairs**)
- Enhance **public awareness & sensitization** to promote wider use of bamboo products & support access to information
- Promote **traditional value** of bamboo (**Eco-tourism site, cultural museum**)

SD6. Enhance knowledge on development, management & utilization of bamboo through innovation, research & promotion of traditional knowledge

- Promote **bamboo research** that generate information addressing the technical, policy & institutional gaps (**INBAR_EFRII**)
- Some key activities
- Platform to identify gaps in **innovation, technology & capacity**
- Conduct research on issues identified across **value-chain** Research **review meeting /stand alone**

SD7. Build Human capital & knowledge management system

- Promote bamboo **education & tailor made on-the-job training (e.g ICBR)**
- Develop functional knowledge management system (**curriculum development** for vocational Training)
- **Some key Activities**
- Develop specialized bamboo **curriculum & modules** to train professionals at various levels
- Develop **tailor-made** training modules on technologies for farmers, MSME entrepreneurs & industry
- **Train, certify & license** trainers to conduct training on bamboo resource & skill development on selected value-chains

SD8. Develop partnerships & mobilize resources

- Promote collaboration, cross-learning, technology transfer, joint venture & advocacy
- Mobilize resources for the development & sustainable utilization of bamboo resources (INBAR/FSDP/REDD+, FTU)
- **Some key Activities**
- South-South cooperation with bamboo growing countries
- Integrate bamboo activities in **annual work plan & budgets**
- Leverage Green, impact **investment fund & climate finance (GCF/GEF)**

SD9. Create enabling institutions, governance mechanisms & incentive modality (EFCCC, bamboo hub/unit)

- **Strategic Actions**
- Set-up appropriate **bamboo unit & recruit pool** of experts at federal, regional & wereda levels
- Establish **steering & technical committees**
- Provide enabling **institutional & policy** support (**Policy guidelines**)
- **Some key Activities**
- **Mainstream bamboo** strategy & action plan with regional action plans
- Develop mechanism for land leasing to **grow bamboo & establish industries** by private sectors
- **Review taxes & tariff** related to bamboo products & lobby for tax exemption/reduction through policy briefs

SD10. Monitoring & Evaluation

- **Strategic Actions**

- Monitor the implementation of the strategy
- Conduct **mid-term & final evaluation** of the implementation of the strategy & document lessons learned for future interventions

- **Some key Activities**

- Evaluate the progress of entire **value-chain** of bamboo development in coordination with key stakeholders
- Produce evidence based advice to influence **policy & decision making**

8. Summary

- Ethiopia has one of the largest **Bamboo resources** in Africa
- It has gone successful progress in implementation of sustainable forest **development, utilization and conservation** policy
- Pursuing and implimenting Bamboo **strategy and action plan**
- EFCCC is actively involved in mainstreaming the strategy with line ministries
- Promising step on establishing the **African bamboo training center**
- **Ultimately, Ensure Sustainable development and utilization of bamboo resources**

Thank you !

